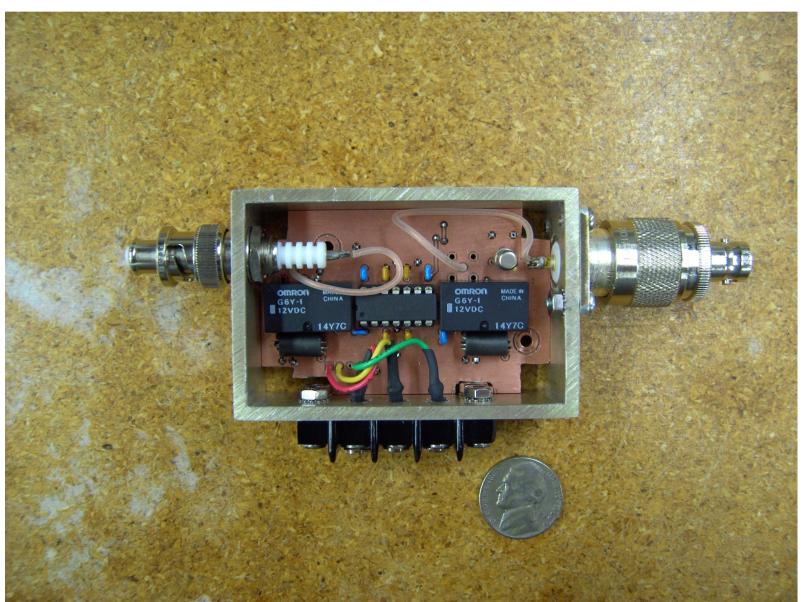
RFA Electronics

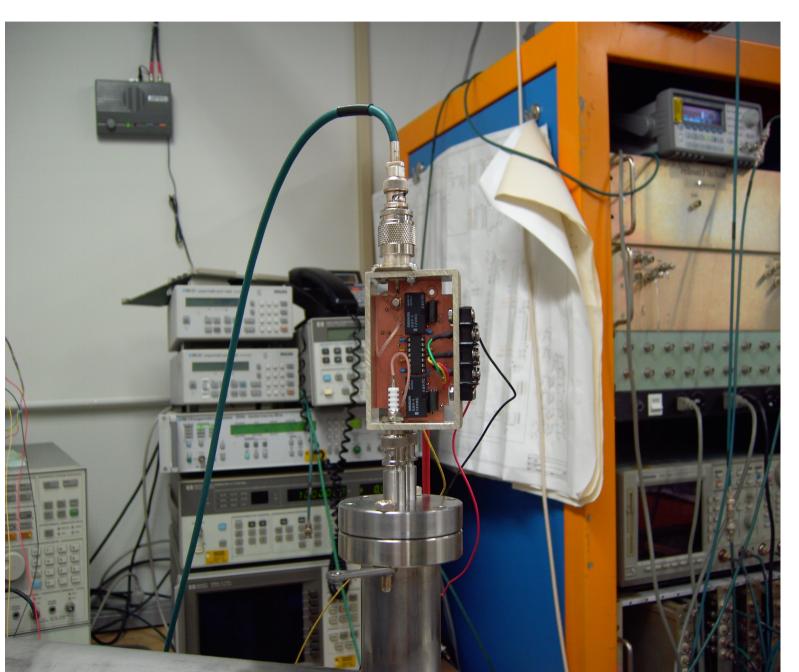
C.Y. Tan 25 Feb 2009

The RFA Filter



Note: The actual rad hard opamp is not in right now. Ken needs to make a adapter board because the radhard op amp a non standard DIP.

Electronics attached to RFA



This is how it will be attached to the RFA.

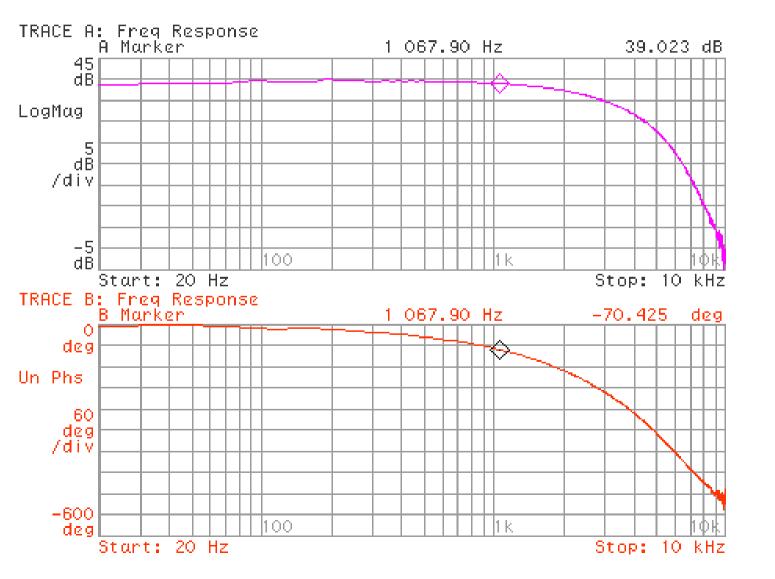
Note: connector strip will be replaced with Twinex.

Some Preliminary Measurements

 Note: Measurements done with OP470A which has the same electronic characteristics as the radhard opamp HS5104-ARH.

Filter Response

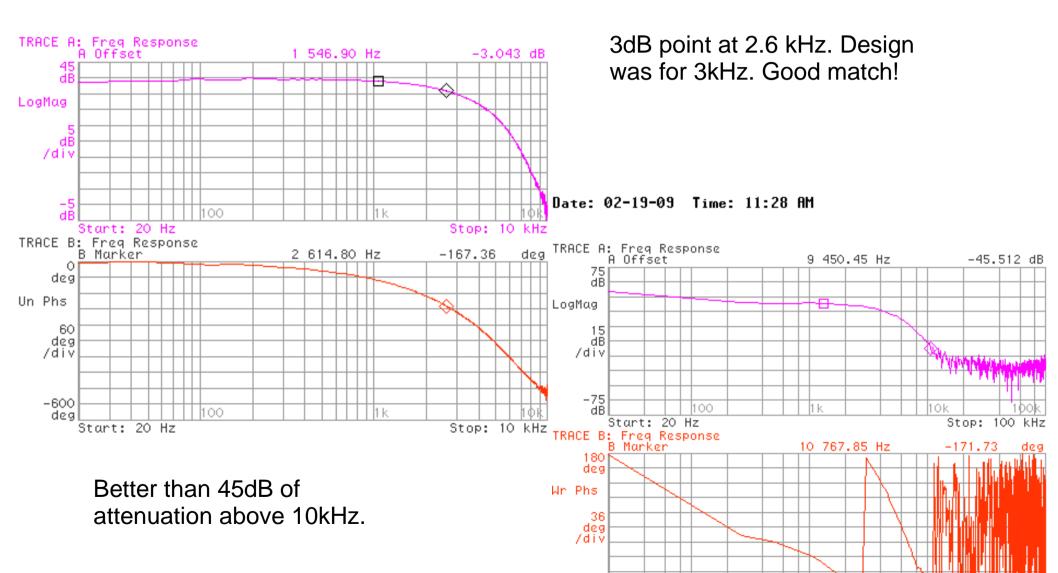
Date: 02-19-09 Time: 11:36 AM



39 dB of power gain

Filter Response (cont'd)

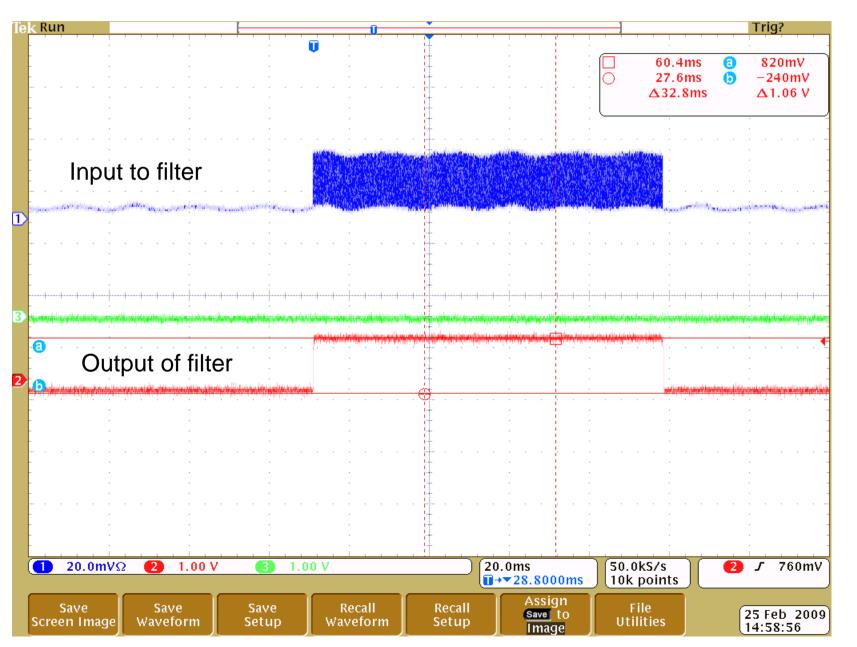
Date: 02-19-09 Time: 11:36 AM



-180 deg

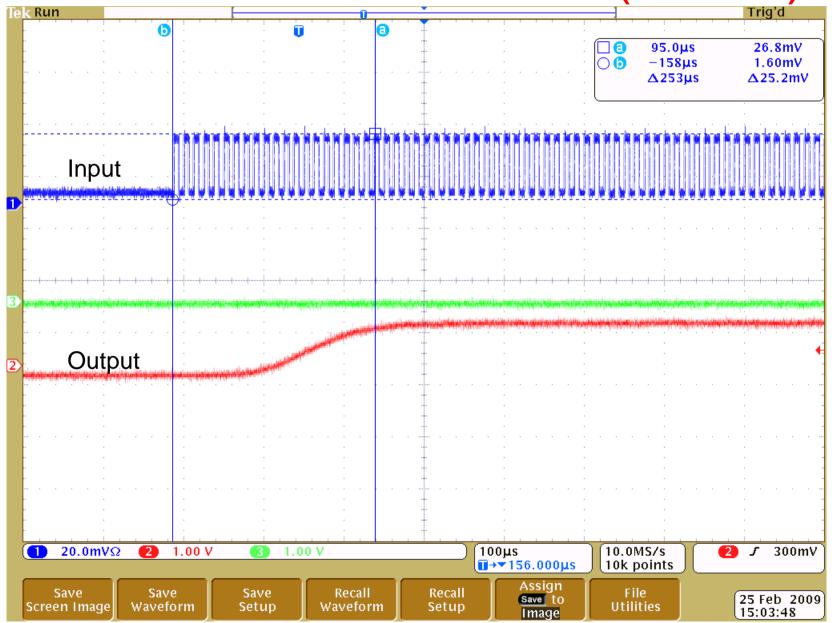
Start: 20 Hz

Time Domain



Pulse train of 7000 pulses. 12.5us each pulse. 25 mV peak. Expect to see electron current pulses of this size or larger. Output is ~1V.

Time Domain (cont'd)



Takes about 20 revolution periods to get to peak value.